

WHAT IS CLAIMED IS:

1. A track jump control apparatus, comprising:

a tracking actuator driver for driving a pick-up in a track traversing direction at a time of track-jumping;

5 a first pulse applying means for applying at a suitable timing a first acceleration pulse or a deceleration pulse to said tracking actuator driver;

a determining means for determining whether or not a zero-cross cycle of an immediately preceding tracking error signal exceeds a predetermined threshold value until a target track number is reached; and

10 a second pulse applying means for applying a second acceleration pulse larger than said first acceleration pulse when it is determined by said determining means that said predetermined threshold value is exceeded.

2. An apparatus according to claim 1, wherein said second acceleration pulse is set in such a manner that at least one of a level and a width thereof is larger than that of said first acceleration pulse.

15 3. A track jump method in a track jump control apparatus in which a target track number is set and a jump pulse corresponding to said target track number is applied to a tracking actuator driver, and a jump is performed one by one track by applying a first acceleration pulse or a deceleration pulse at a suitable timing to said tracking actuator driver until said target track number is reached, comprising following steps of:

(a) determining whether or not the zero-cross cycle of an immediately preceding tracking error signal exceeds a predetermined threshold value until said target track number is reached; and

20 (b) applying a second acceleration pulse larger than said first acceleration pulse when said zero-cross cycle exceeds said predetermined threshold value.

4. A method according to claim 3, wherein said second acceleration pulse is set in such a manner that at least one of a level and a width thereof is larger than that of said first acceleration pulse.